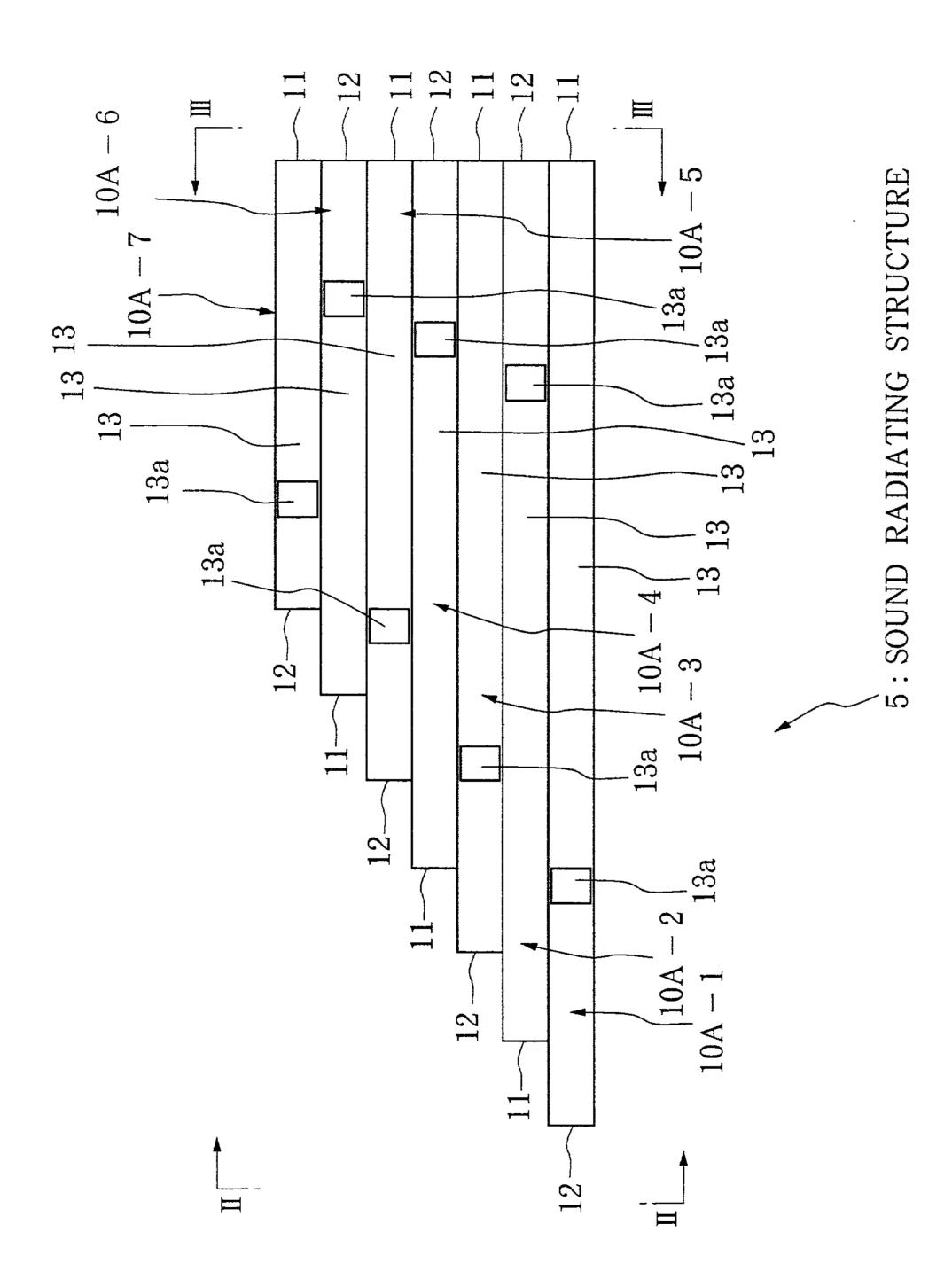
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FIG. 1

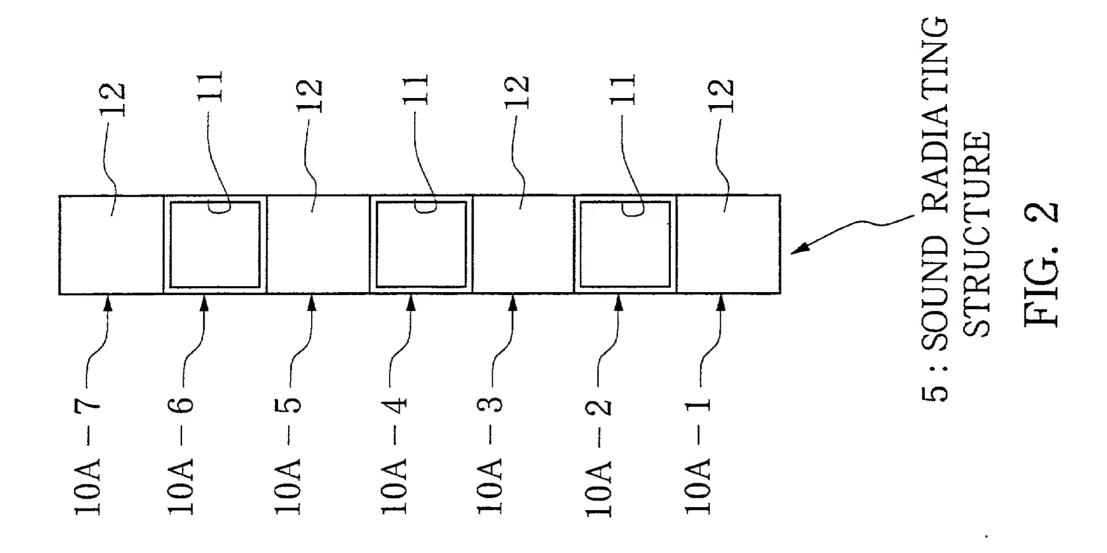


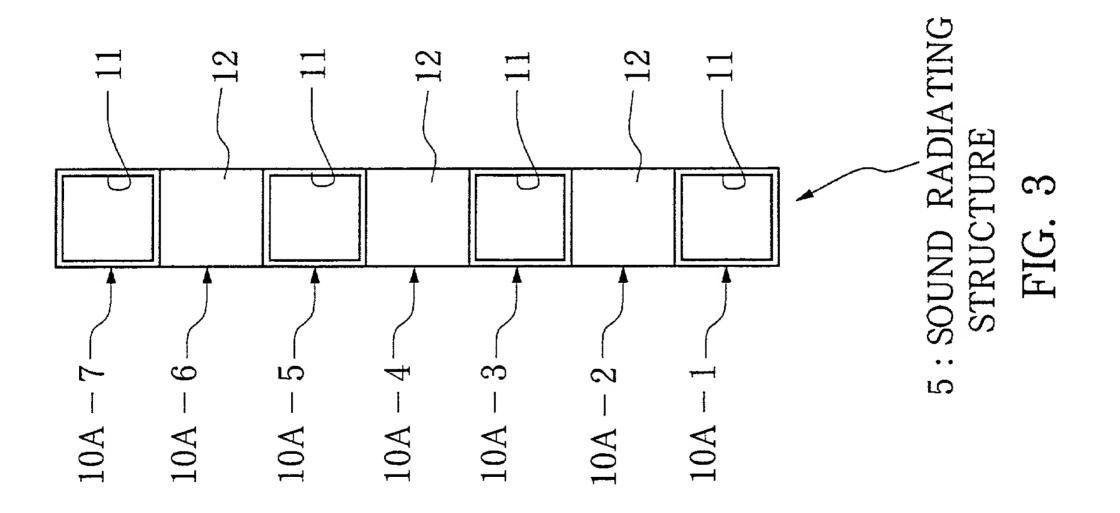
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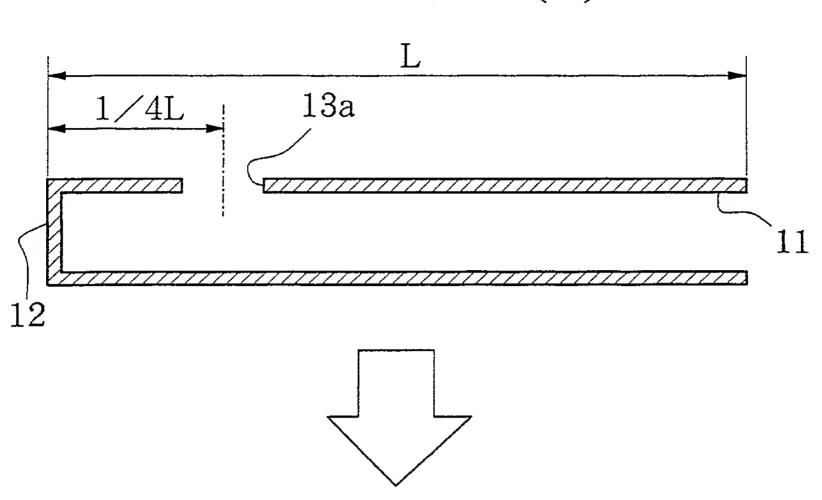
Serial No.: 09/905,547 Group Art Unit: 2837

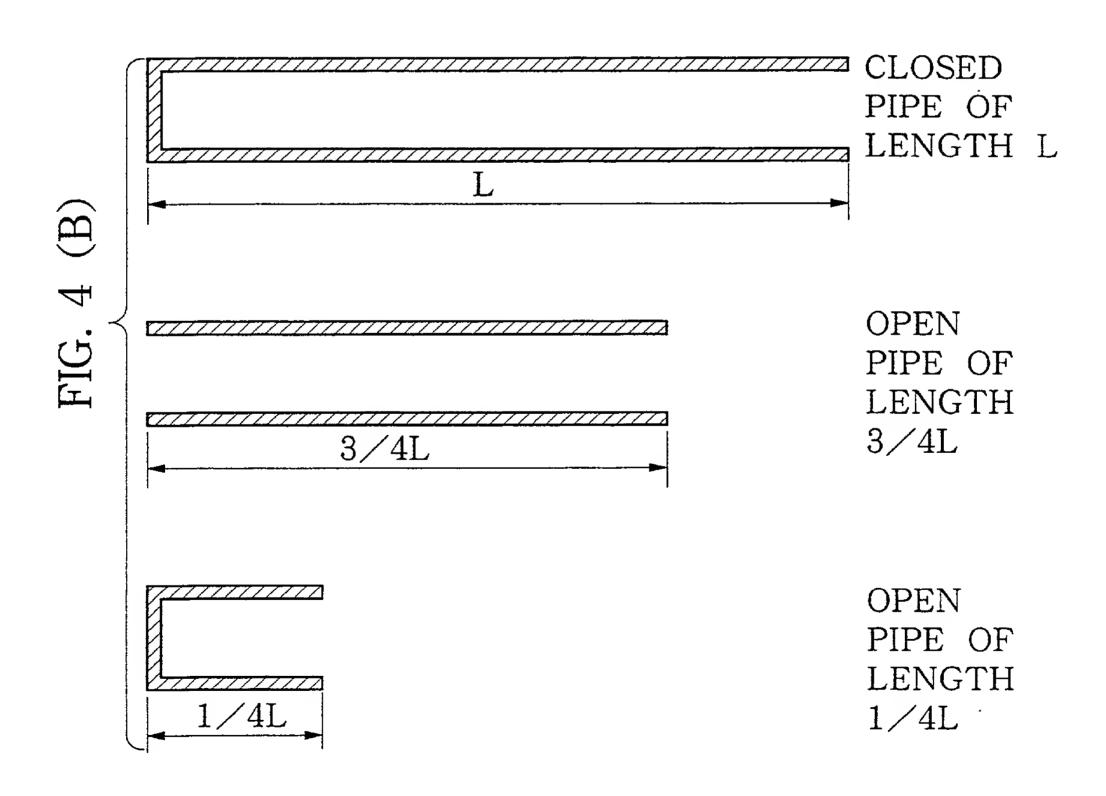
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FIG. 4 (A)





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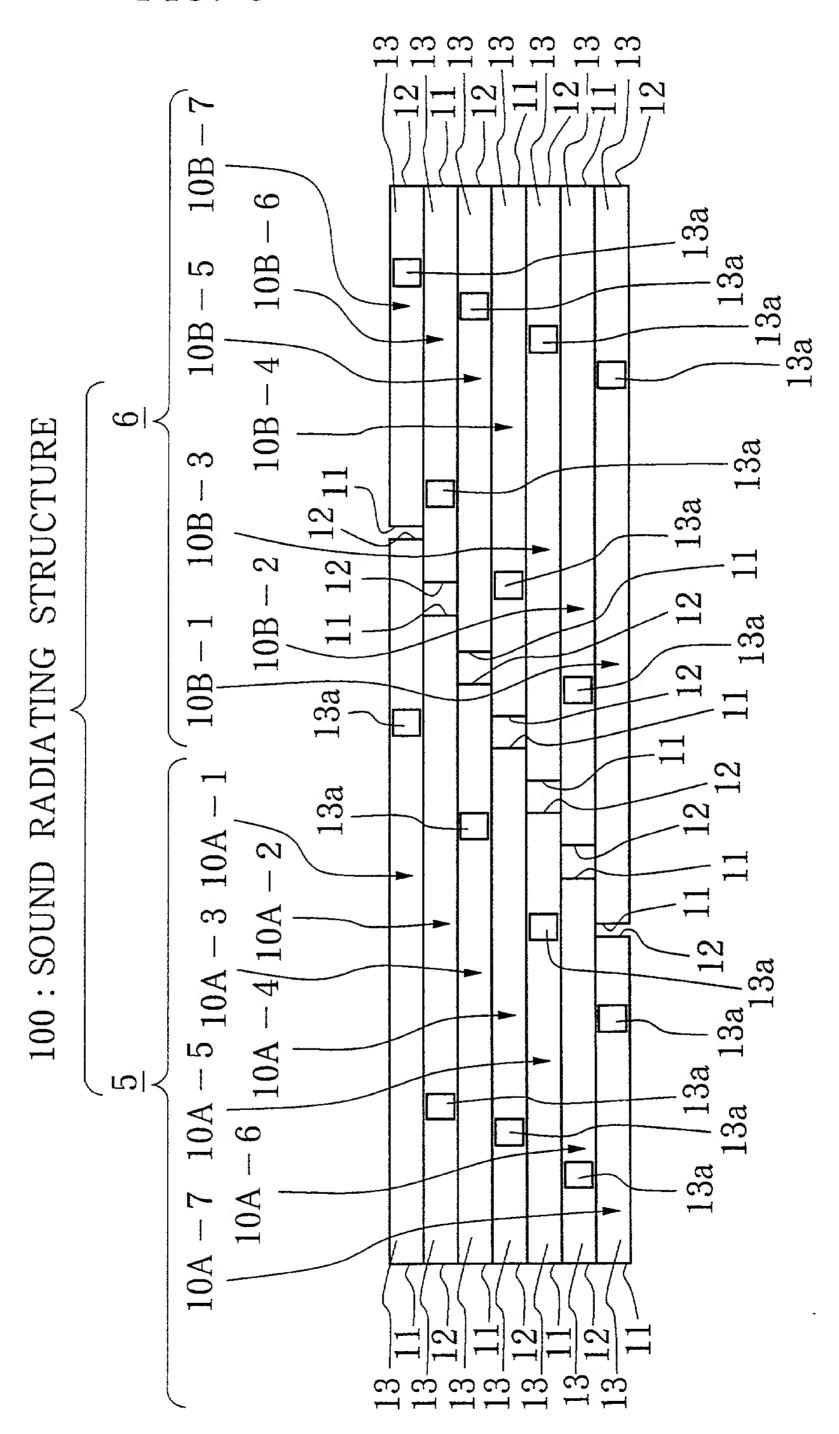
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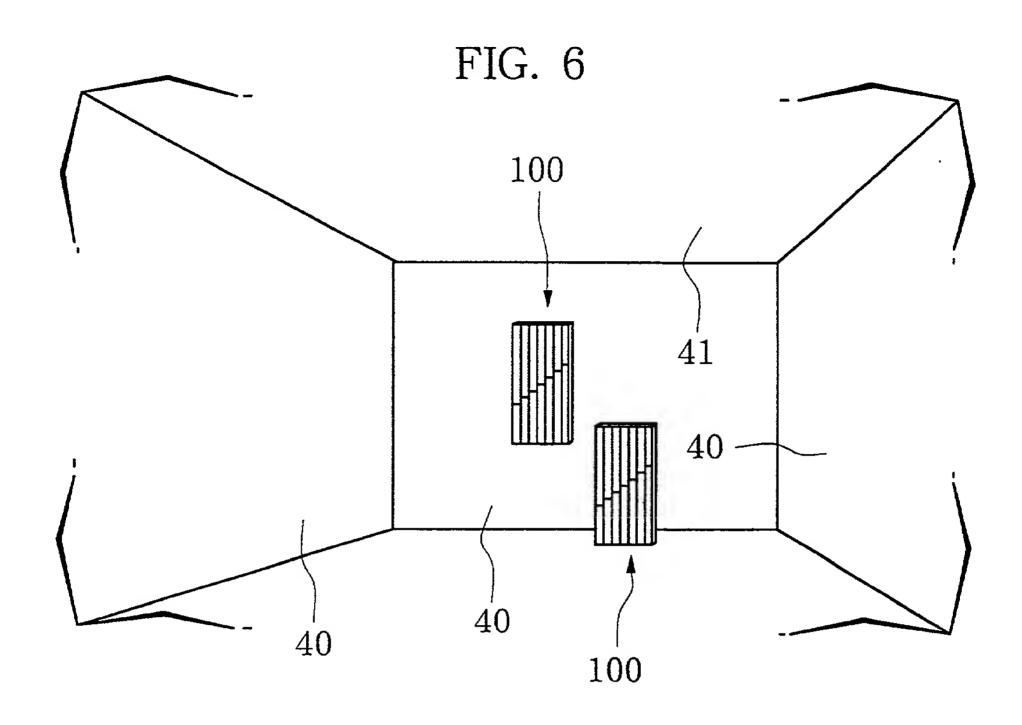
FIG. 5

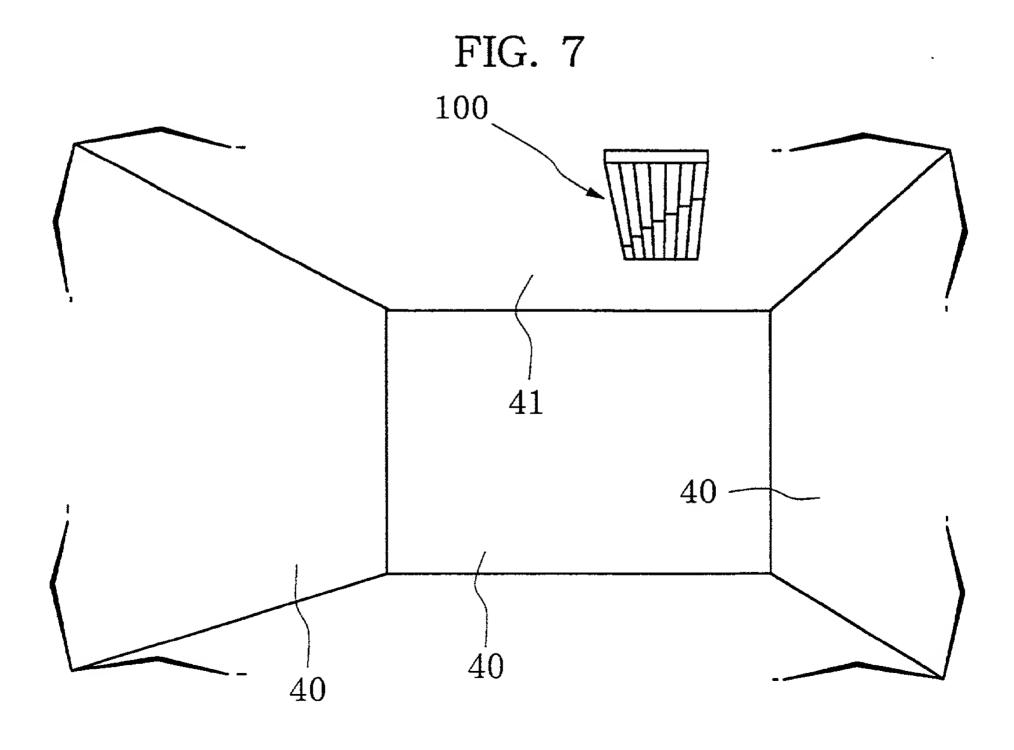


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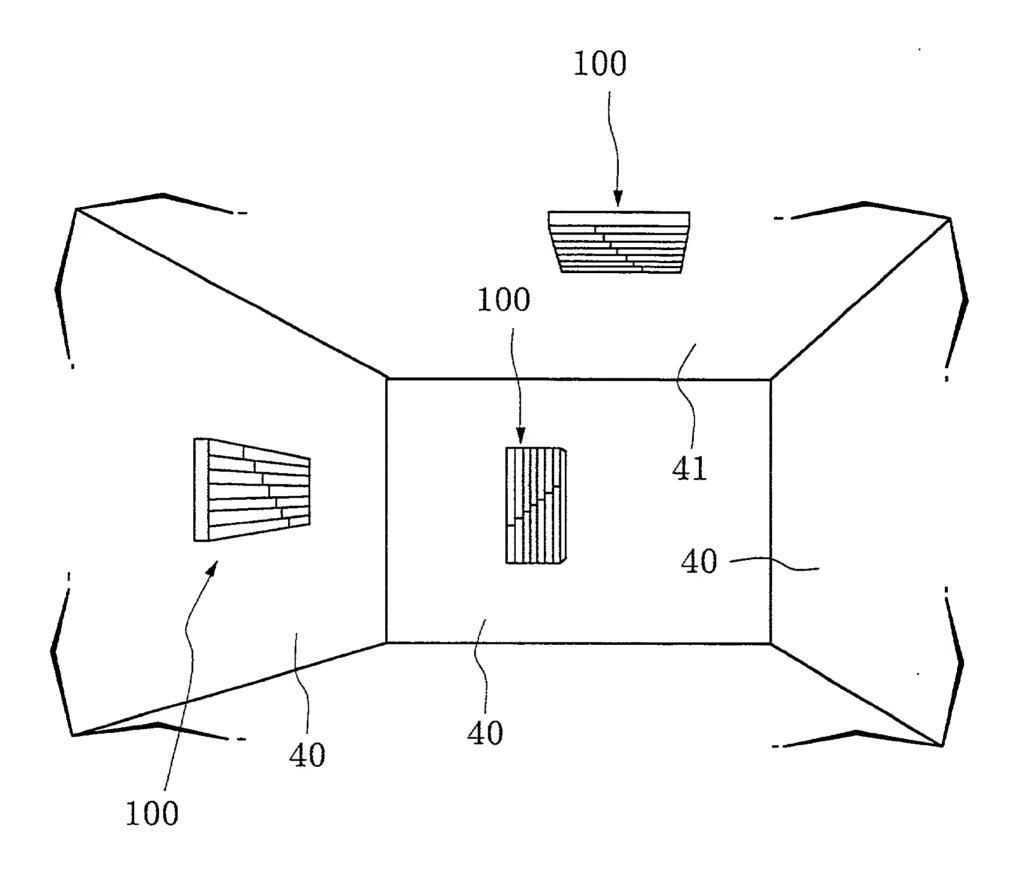


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FIG. 8



| PILLSBURY WINTHROP LLP, LOS ANGELES | |
|-------------------------------------|--|
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| PIPE NO | A1 | B1 | A2 | B2 | A3 | B3 | A4 | B4 | A5 | B5 | A6 | B6 | A7 | B7 |
|---------------|-----|-----------------------------|-----|-----|-----------------------------|-----|-----|-----|-----------------|-------------|-----|-----------|-----|-----|
| LENGTH L (mm) | 895 | 850 | 800 | 092 | 850 800 760 720 680 640 | 089 | 640 | 605 | 565 | 530 | 500 | 500 470 | 445 | 425 |
| f (Hz) | 95 | 100 | 106 | 112 | 100 106 112 118 125 | 125 | 133 | 140 | 140 150 | 160 170 181 | 170 | 181 | 191 | 200 |
| f – S (Hz) | 380 | 380 400 425 447 472 | 425 | 447 | 472 | 500 | 531 | 562 | 602 | 642 | 680 | 723 | 764 | 800 |
| f – L (Hz) | 253 | 267 | 283 | 298 | 315 | 333 | 354 | 375 | 375 401 428 | 428 | 453 | 482 | 509 | 533 |

FIG. 9

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MICROPHONE

| 1/4L | L

FIG. 10A

| PIPE NO | A1 | B1 | A2 | B2 | A3 | B3 | A4 | B4 | A5 | B5 | 9V | B6 | A7 | B7 |
|--------------------------|-----|--|------|------|------|-----------------|------|------|------|------|------|------|------|------|
| f-L(Hz) | 127 | 133 | 142 | 149 | 157 | 157 167 177 | 177 | 187 | 201 | 214 | 227 | 241 | 255 | 267 |
| MEASURED VALUE f1(Hz) | 120 | 135 | 140 | 145 | 150 | 180 | 190 | 180 | 185 | 210 | 225 | 225 | 230 | 235 |
| MEASURED VALUE f2(Hz) | 350 | 350 | 360 | 395 | 390 | 410 | 445 | 490 | 515 | 200 | 510 | 570 | 550 | 610 |
| MEASURED VALUE f3(Hz) | 850 | 850 1000 1100 1200 1000 1100 1350 1250 1600 1000 1400 1500 1200 1800 | 1100 | 1200 | 1000 | 1100 | 1350 | 1250 | 1600 | 1000 | 1400 | 1500 | 1200 | 1800 |

FIG. 10B

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FIG. 11A

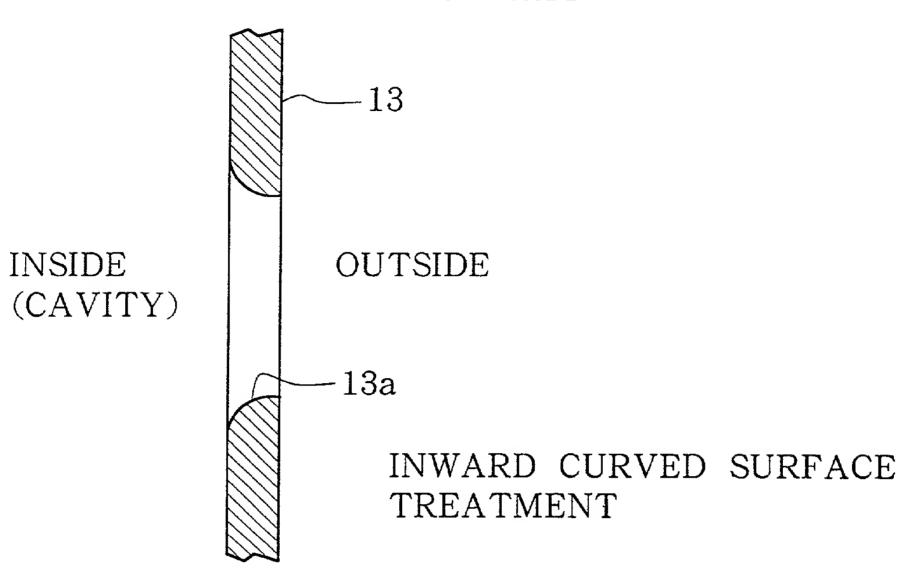
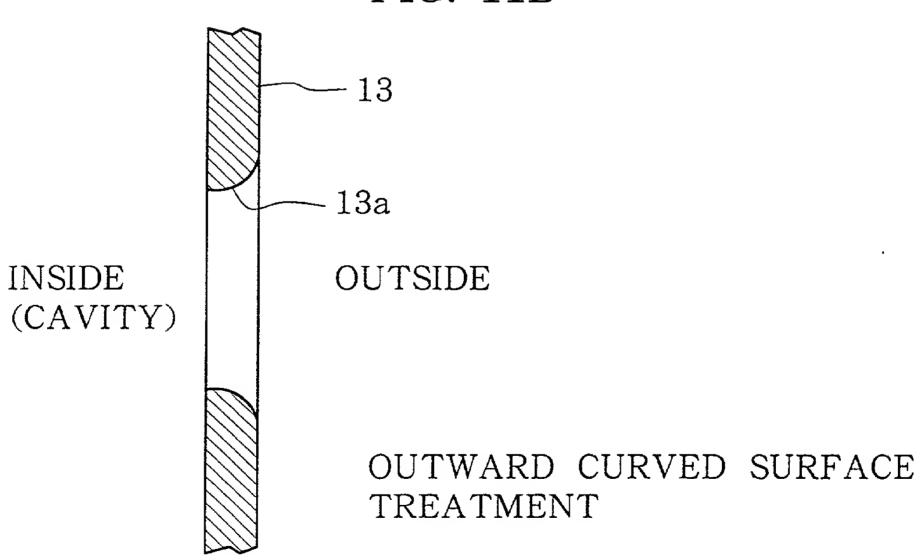


FIG. 11B



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SOUND PRESSURE

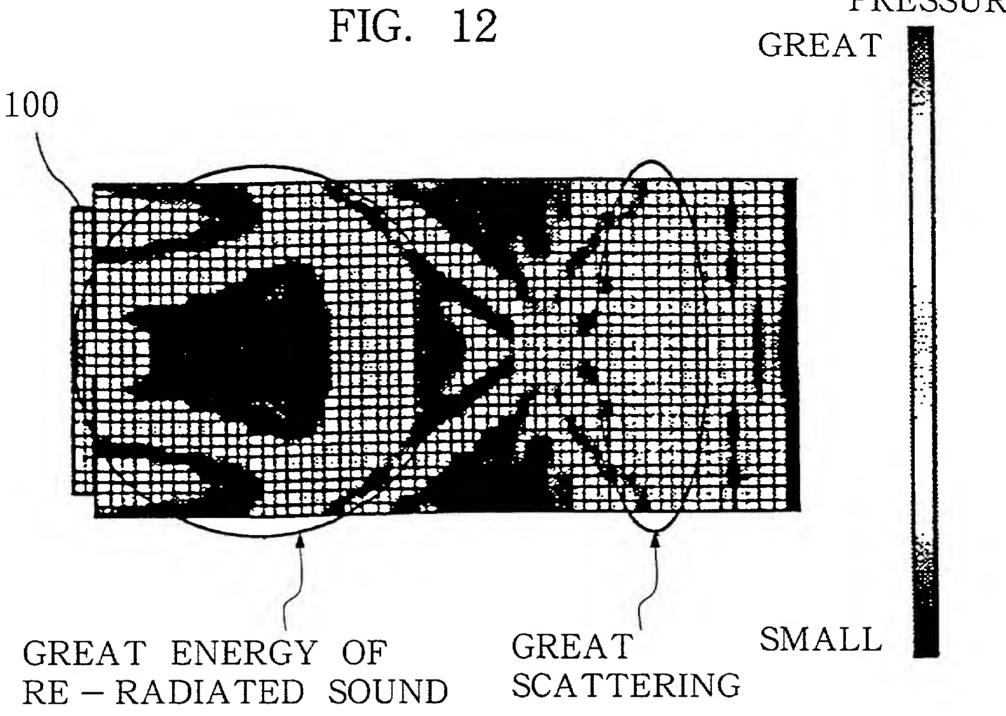
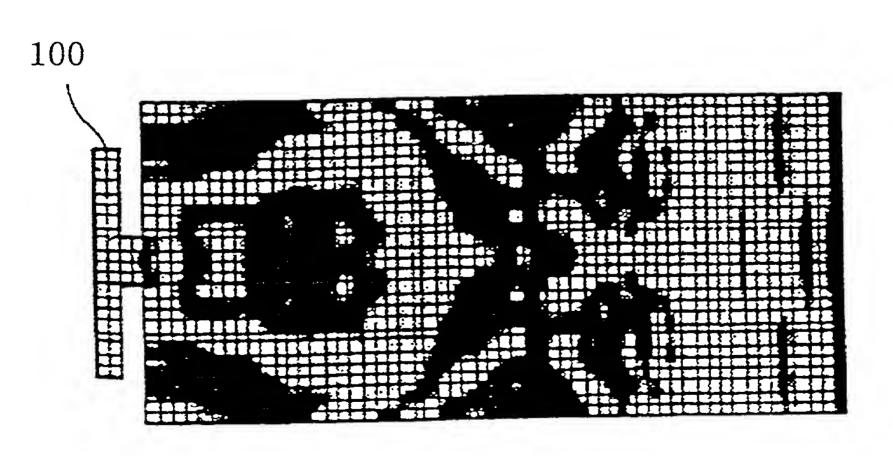


FIG. 13

SOUND
PRESSURE
GREAT



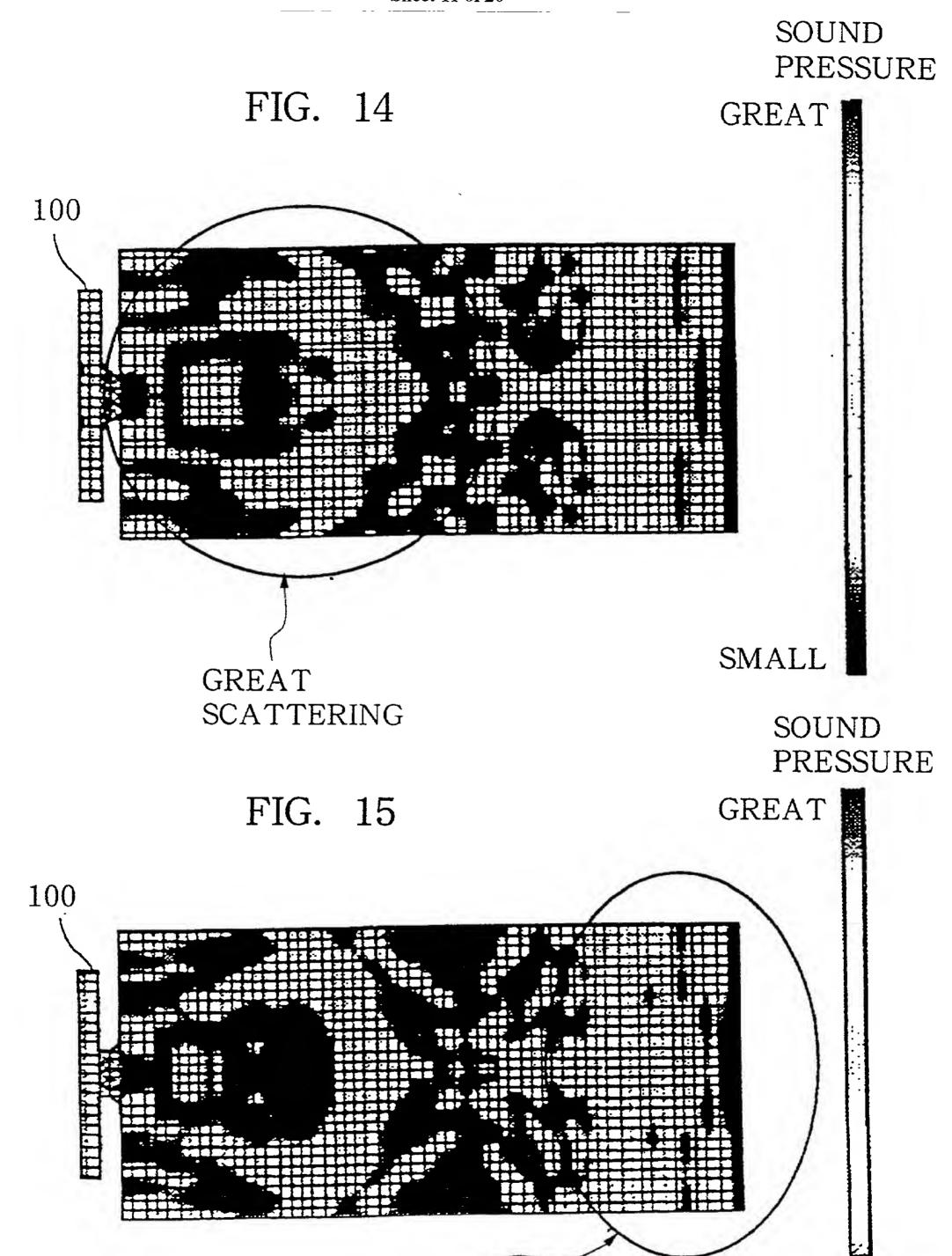
SMALL

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GREAT

SCATTERING

SMALL

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Title: SOUND RADIATING STRUCTURE.....

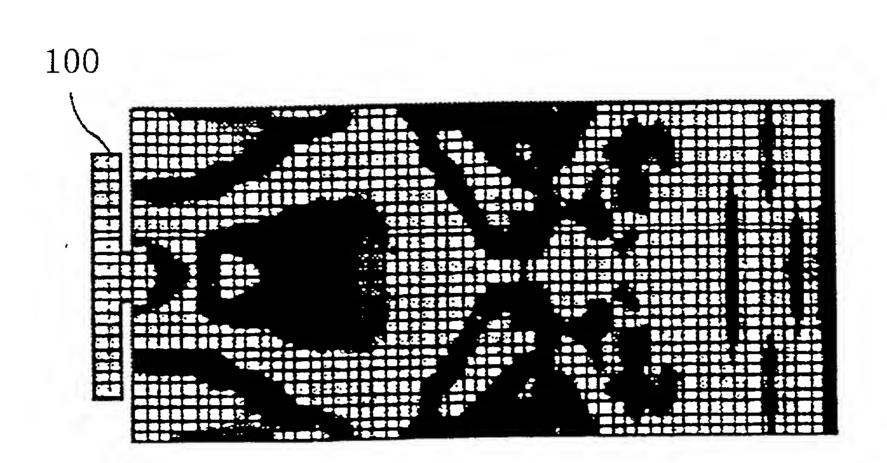
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SOUND PRESSURE

GREAT .

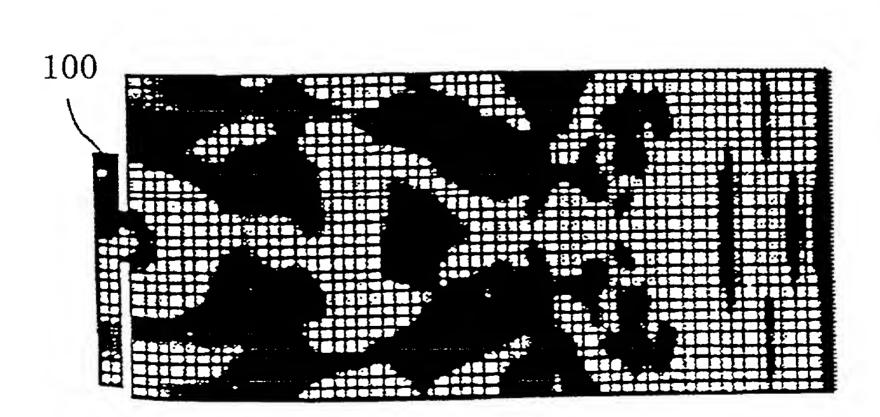
FIG. 16



SMALL

FIG. 17

SOUND PRESSURE GREAT

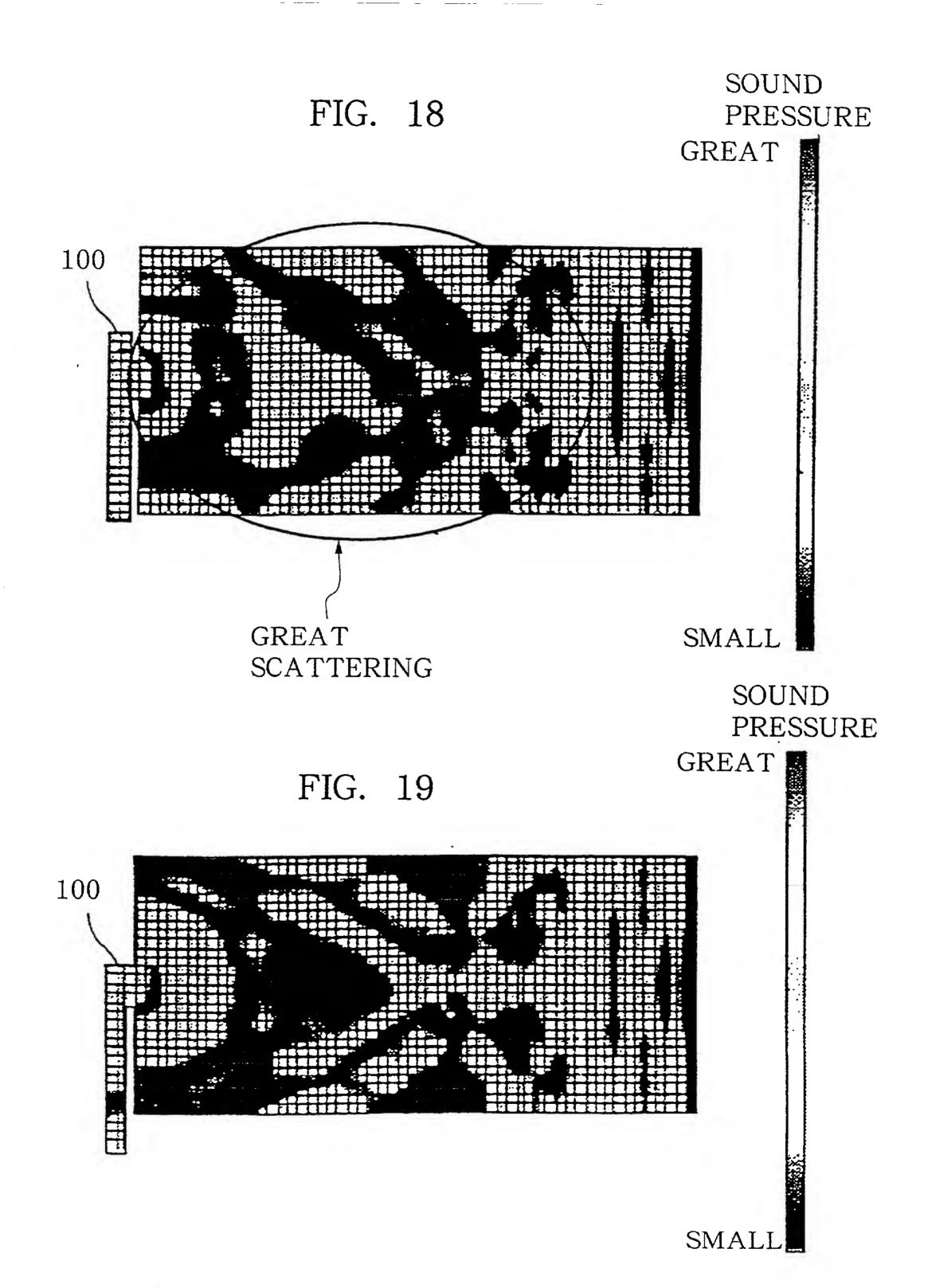


SMALL

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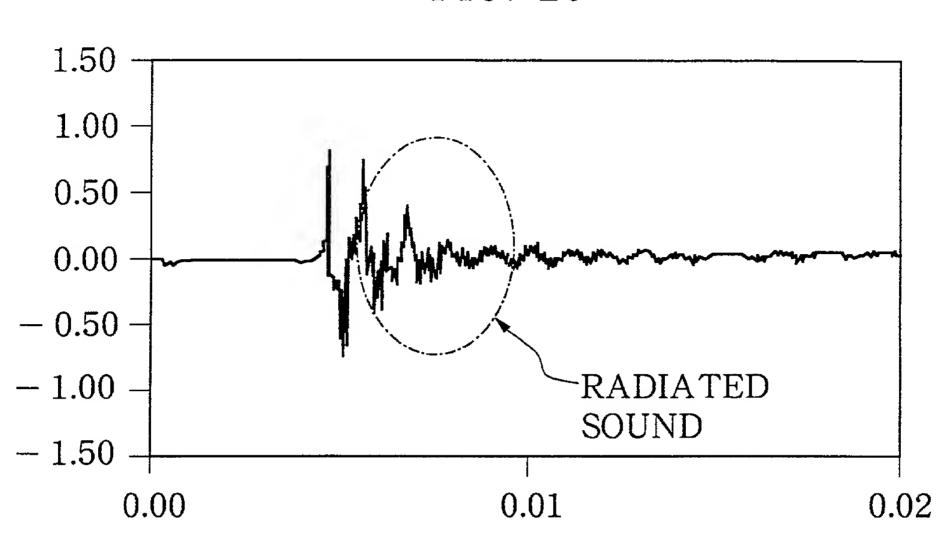
Group Art Unit: 2837

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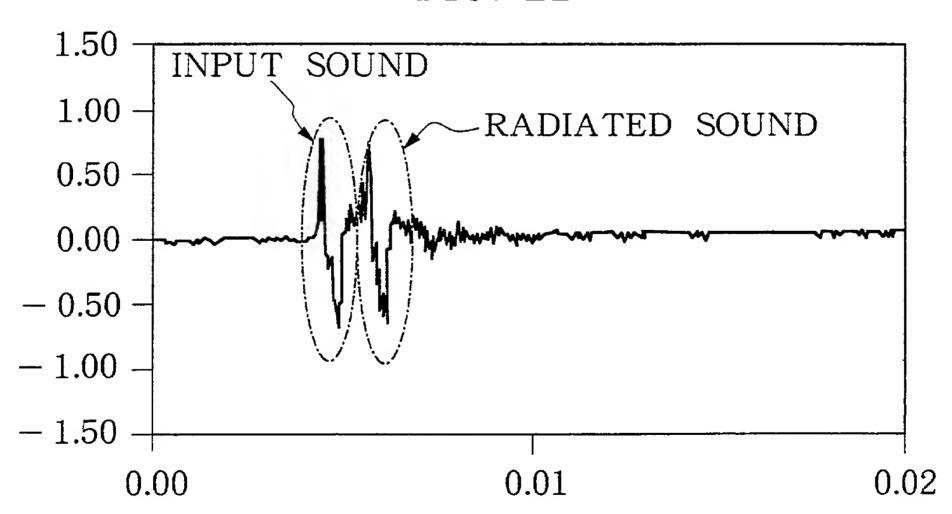
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FIG. 20



WITH SOUND RADIATING STRUCTURE

FIG. 21



WITHOUT SOUND RADIATING STRUCTURE

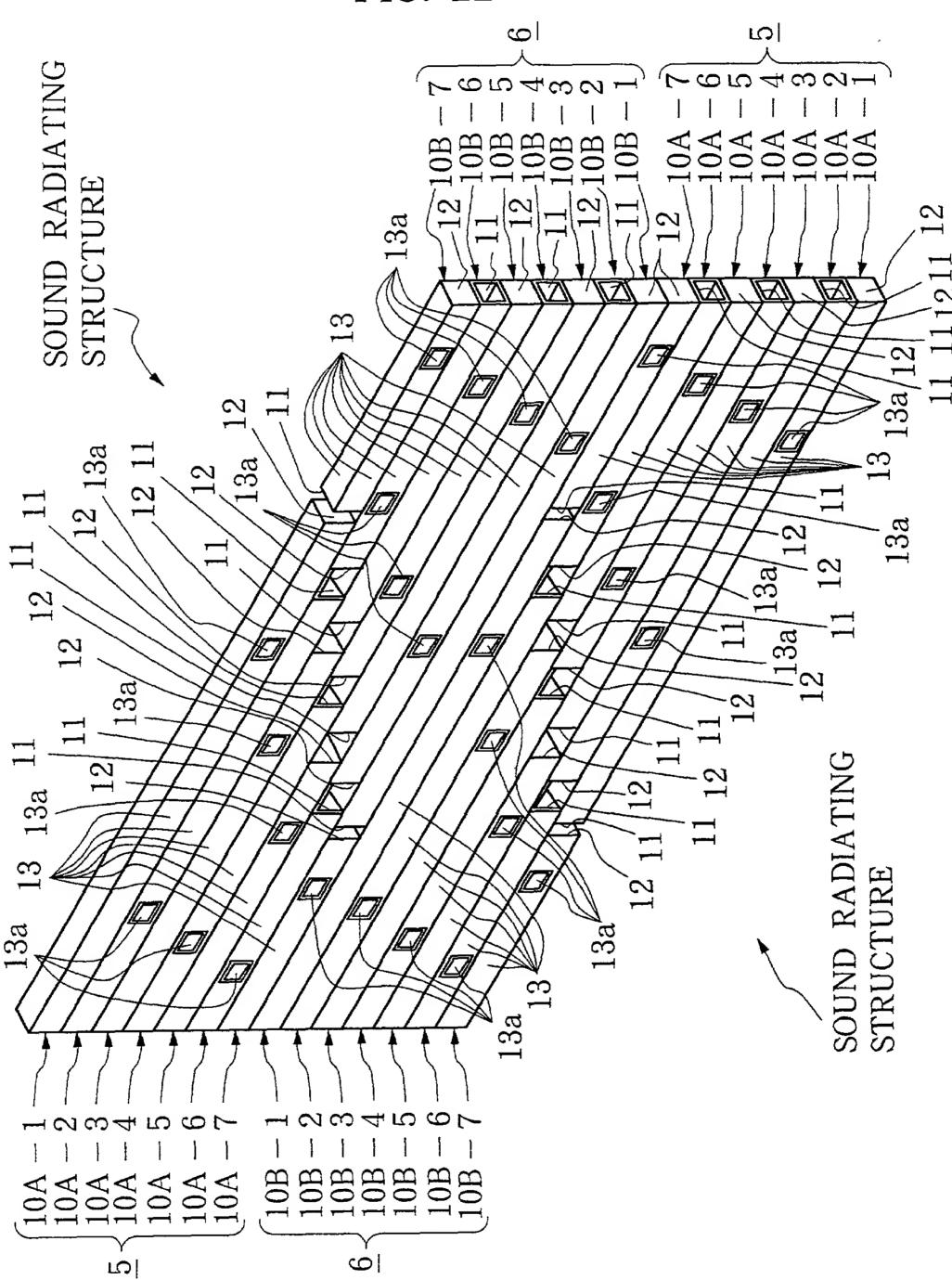
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FIG. 22



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FIG. 23

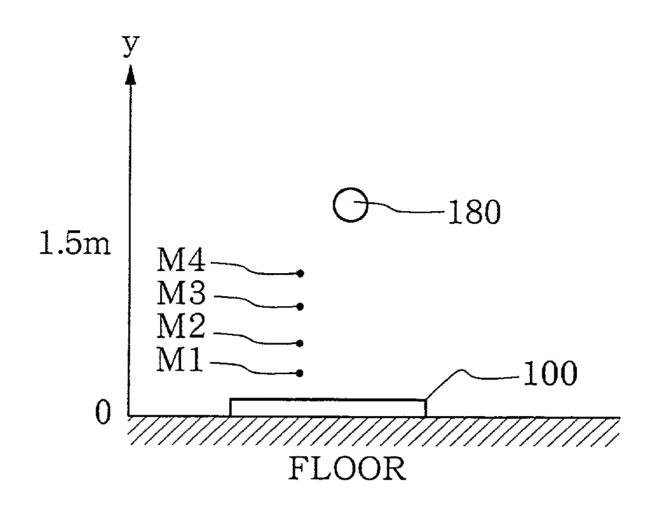
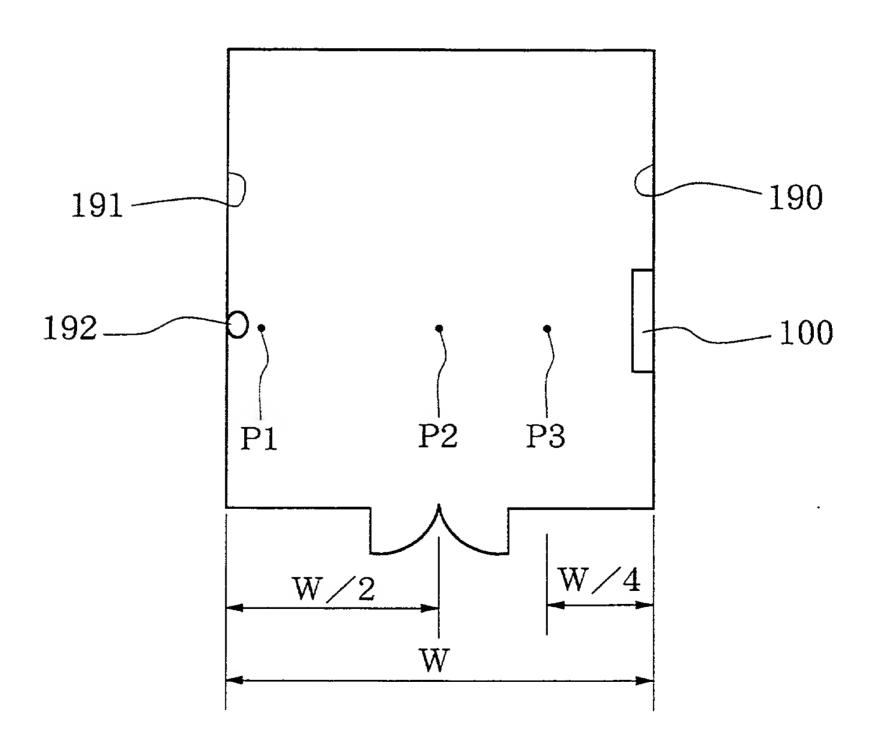


FIG. 24



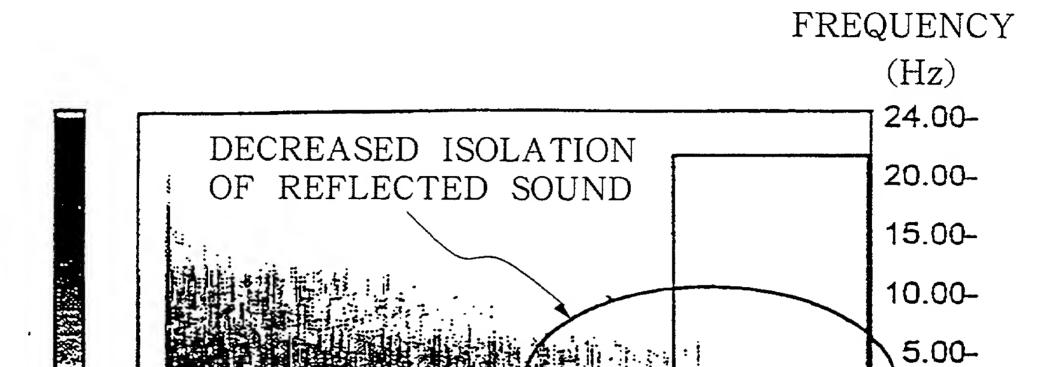
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FIG. 25

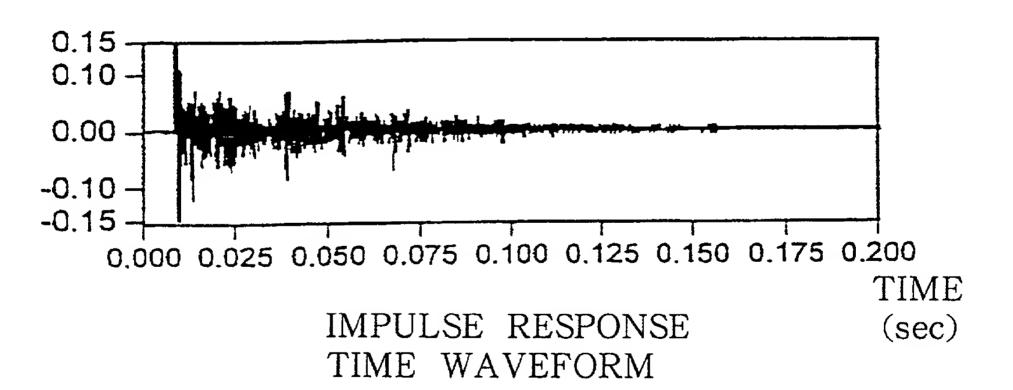


0.000 0.025 0.050 0.075 0.100 0.125 0.150 0.175_0.200

SPECTROGRAM TIME (sec)

0.00-

IMPULSE RESPONSE



Serial No.: 09/905,547 Group Art Unit: 2837

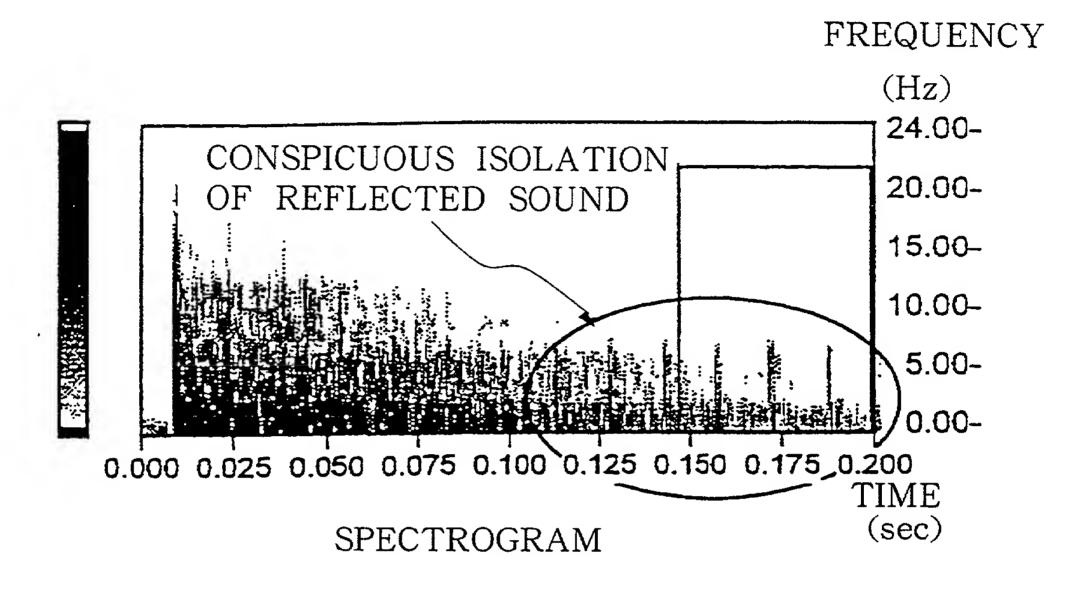
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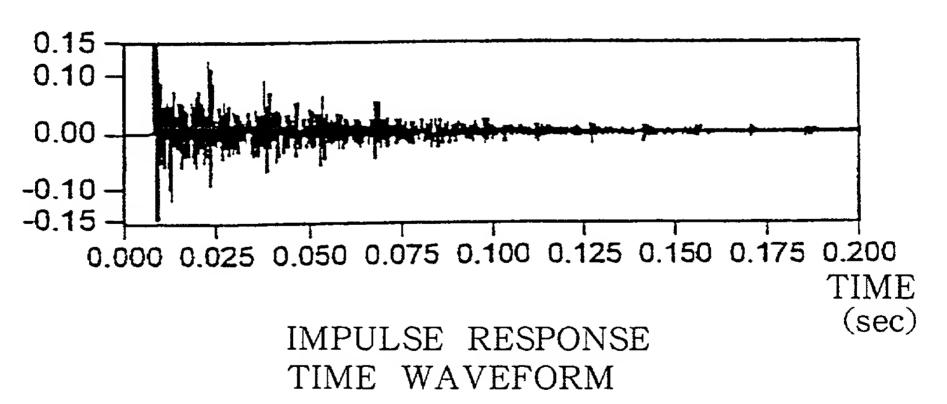
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FIG. 26



IMPULSE RESPONSE



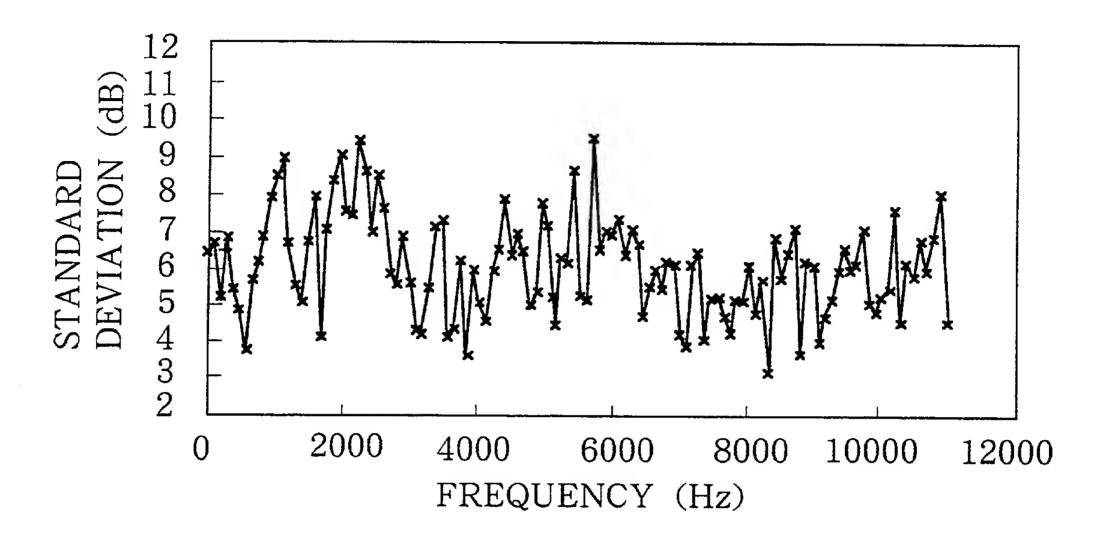
Serial No.: 09/905,547 Group Art Unit: 2837

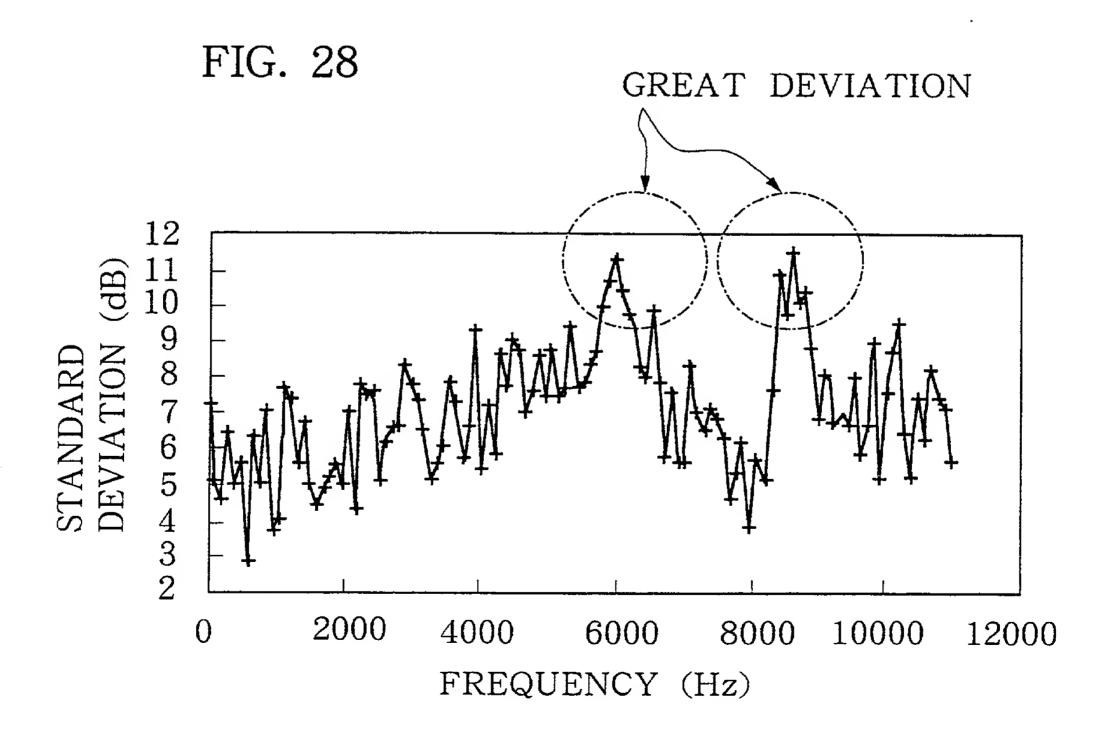
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FIG. 27

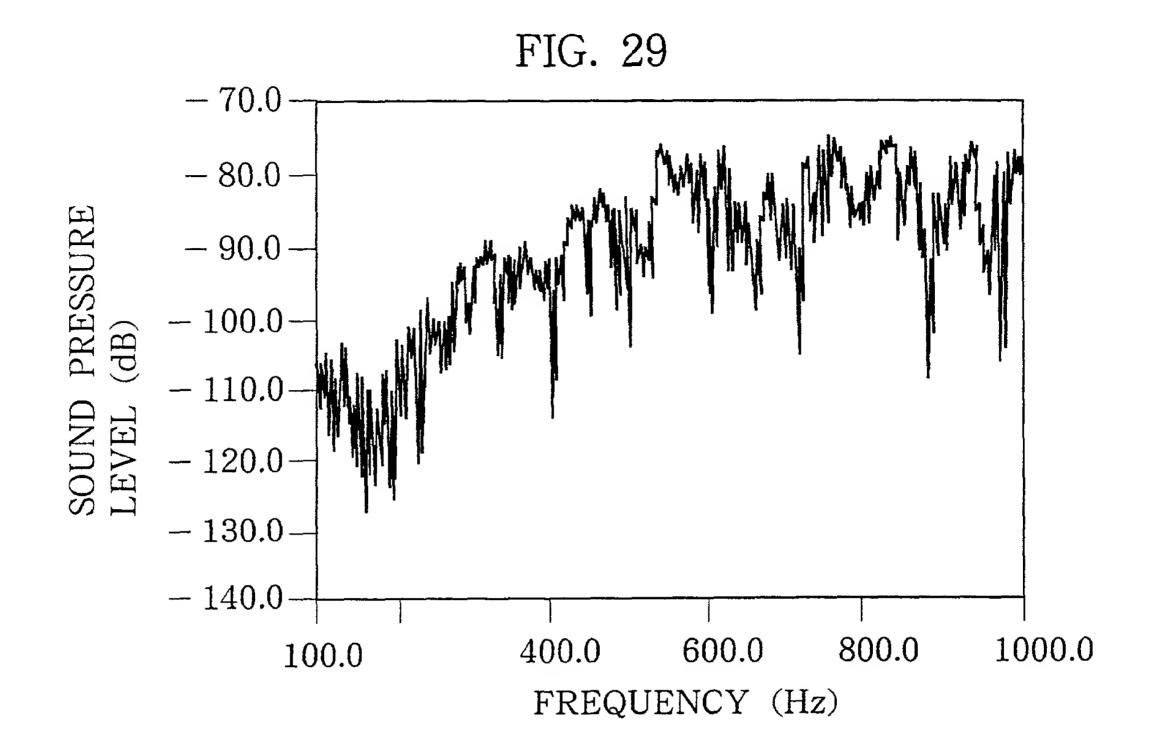


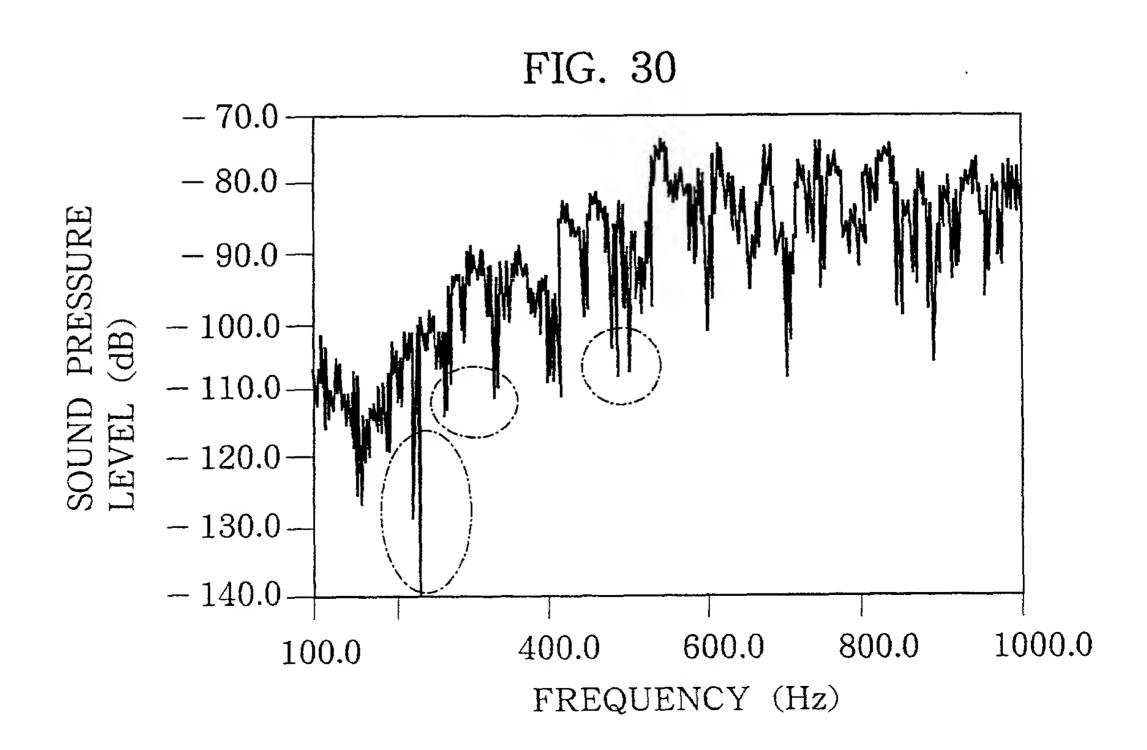


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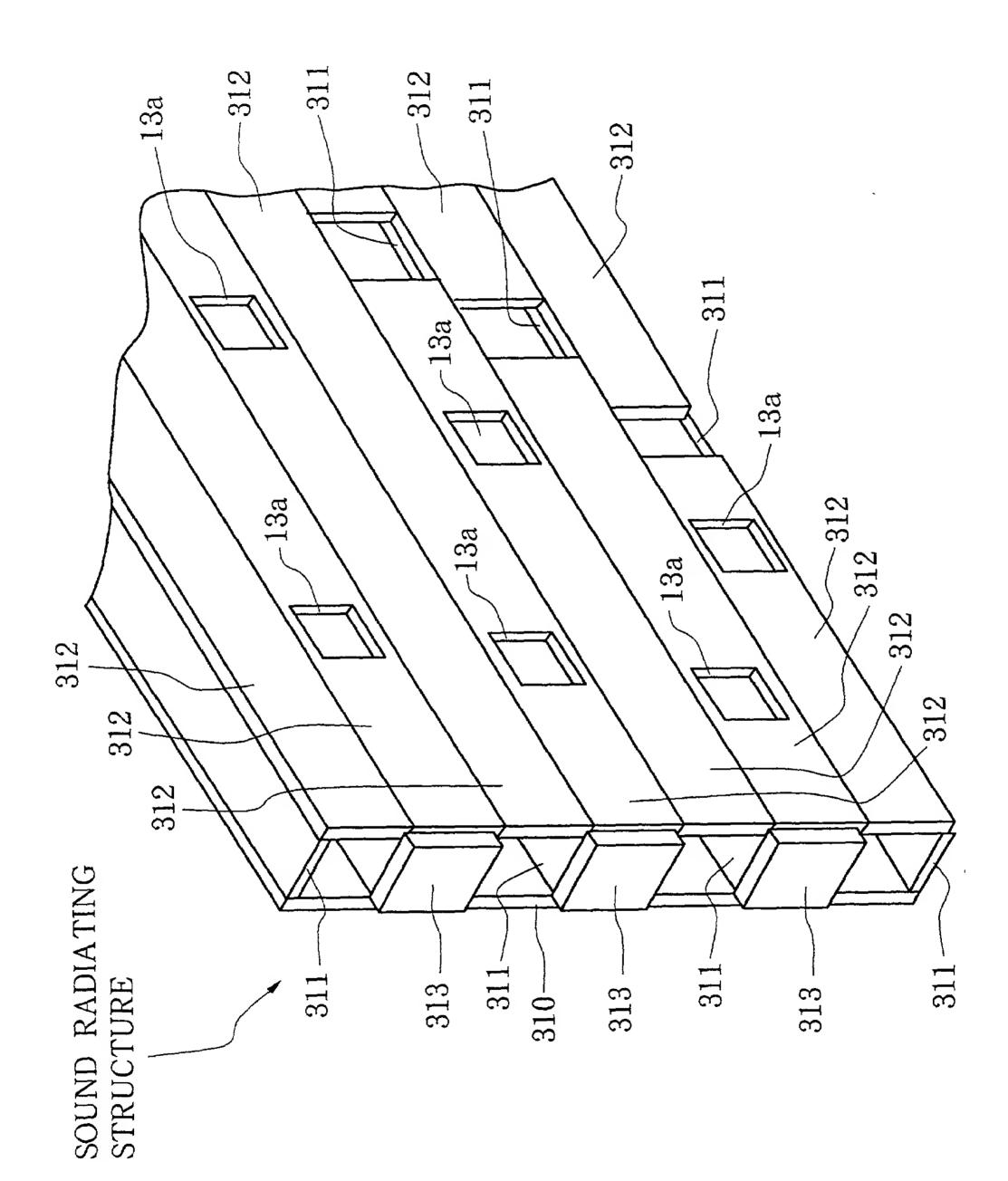
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FIG. 31



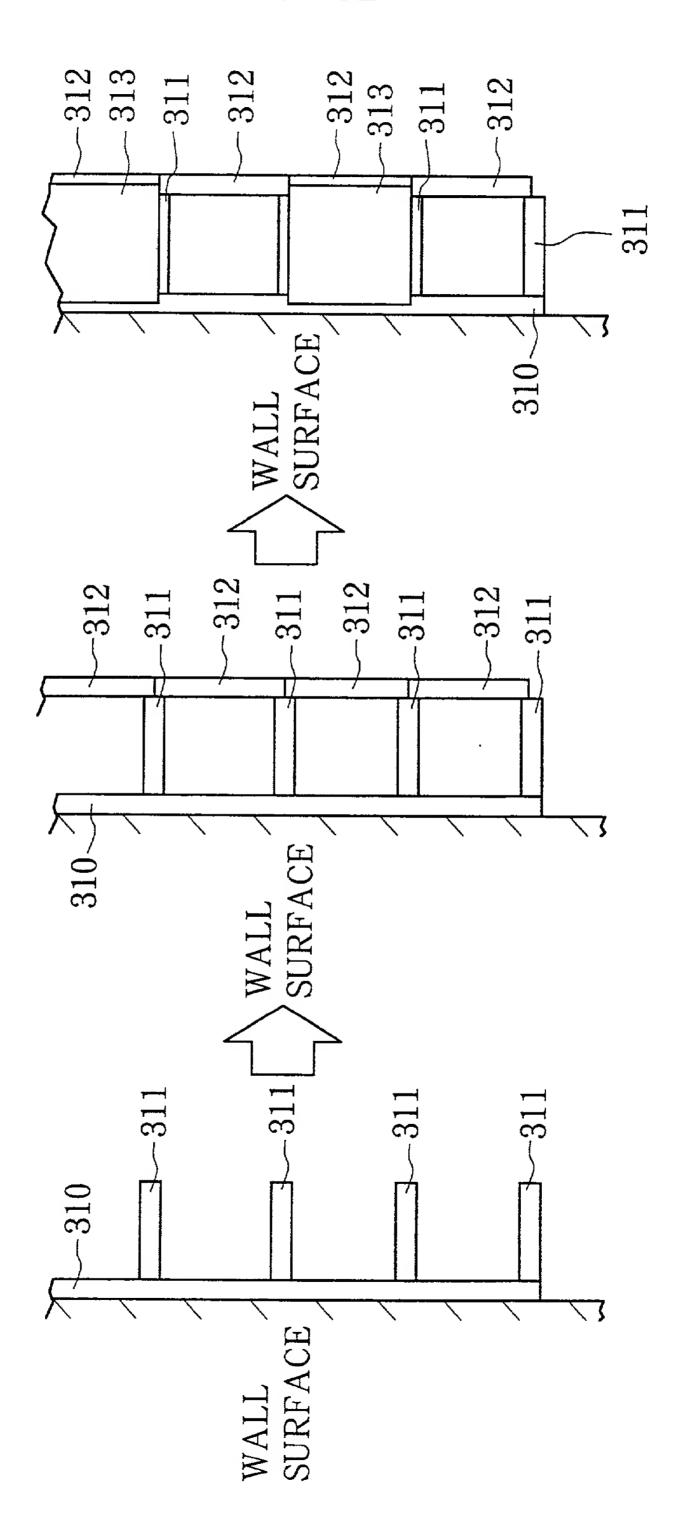
Serial No.: 09/905,547 Group Art Unit: 2837

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FIG. 32

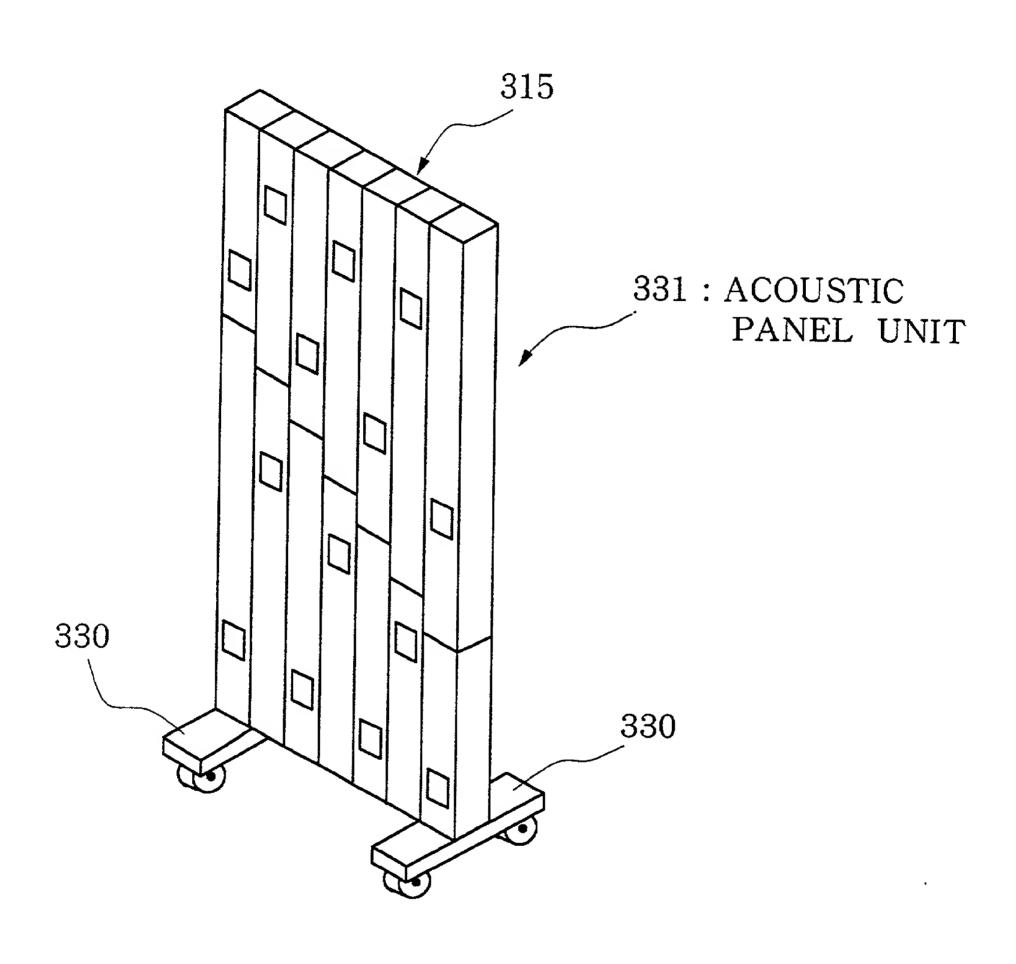


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FIG. 33

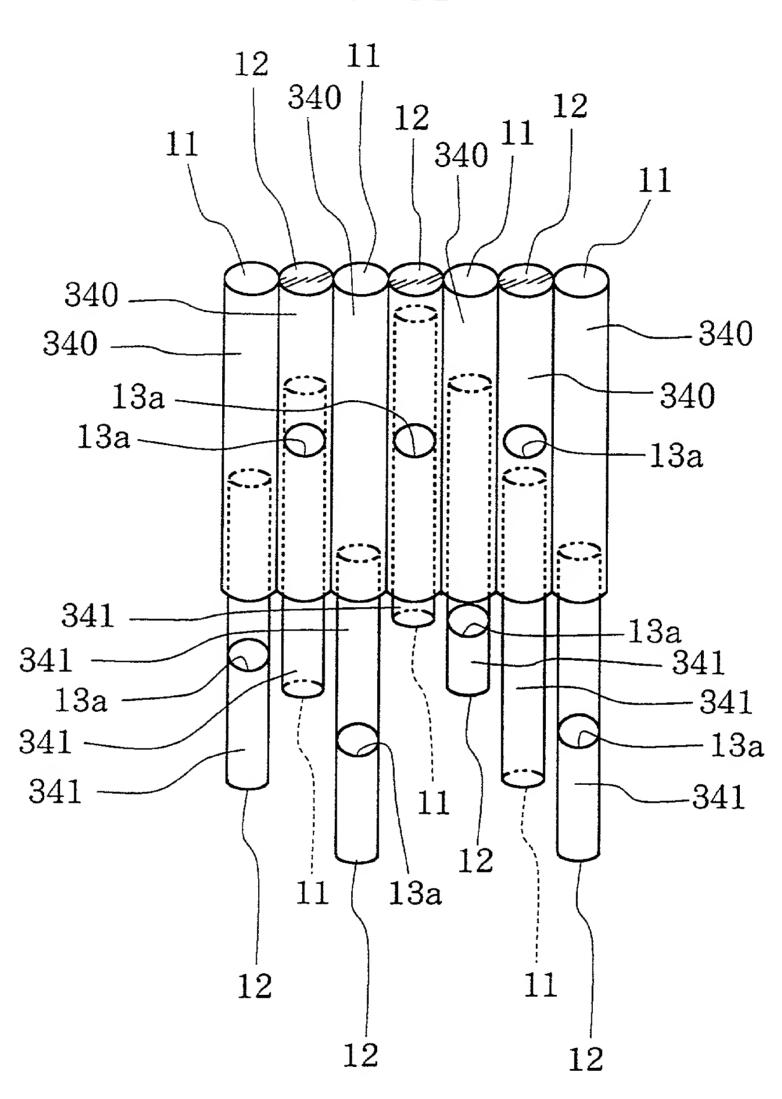


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FIG. 34

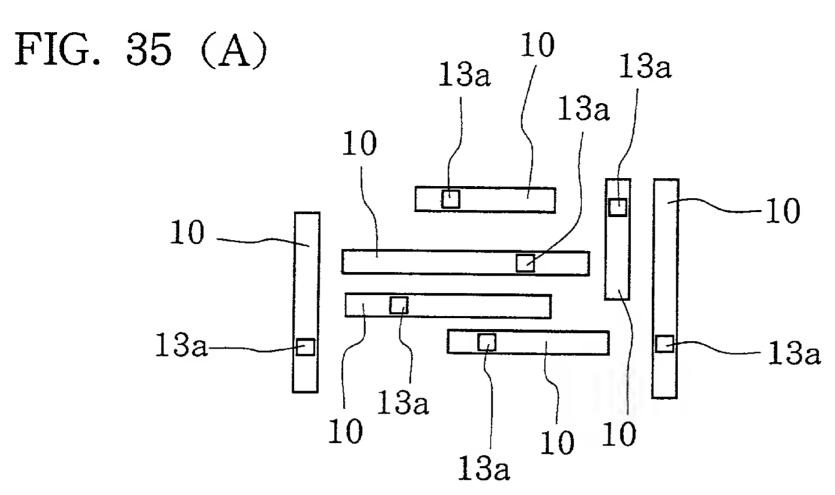


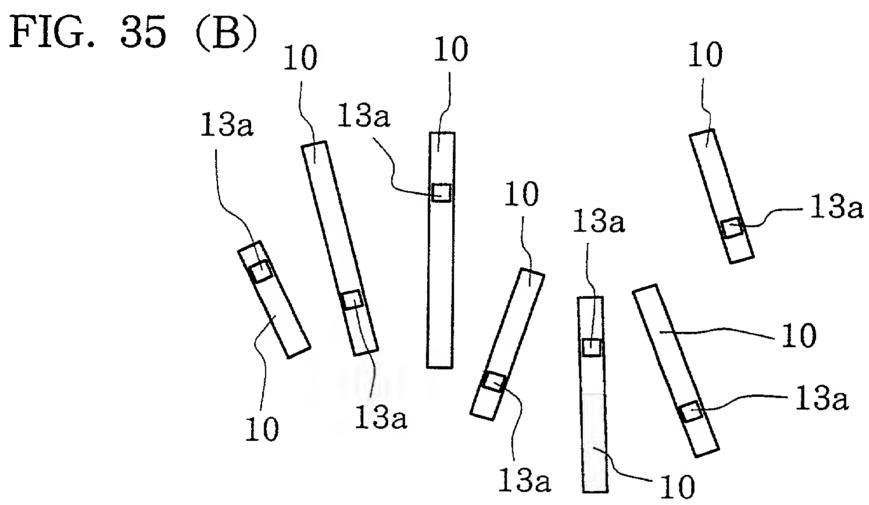
Serial No.: 09/905,547 Group Art Unit: 2837

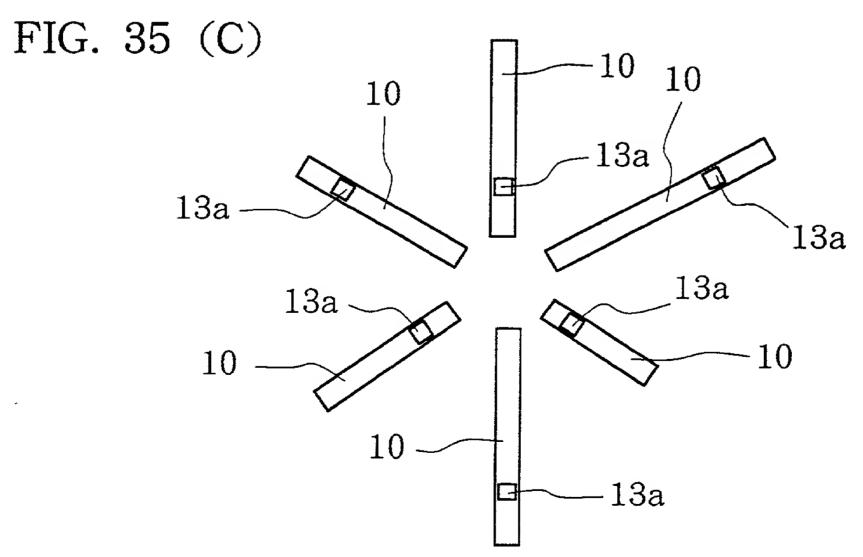
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FIG. 36

